

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

COMPLETE IF KNOWN

10/589180

| | |
|-----------------------------|-------------------|
| Application Number | 11,041,989 100 |
| Filing Date | August 11, 2006 |
| First Named Inventor | La Monica, et al. |
| Group Art Unit | |
| Examiner Name | |
| Attorney Docket Number | ITR0073YP |

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|-------------------------|-------------------|---|--|
| Examiner Initials* | Cite No. | Foreign Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Office | Number | Kind Code (if known) | |
| | | EPC | 0 346 710 B1 | Miles, Inc. | 11/11/1993 |
| | | PCT | WO 01/014416 A2 | Merck & Co., Inc. | 03/01/2001 |
| | | PCT | WO 01/24832 A2 | Pecher | 04/12/2001 |
| | | PCT | WO 01/30382 A1 | Aventis Pasteur Limited | 05/03/2001 |
| | | PCT | WO 02/022080 A3 | Merck & Co., Inc. | 03/21/2002 |
| | | PCT | WO 02/38769 A2 | Muller | 05/16/2002 |
| | | PCT | WO 03/059379 A2 | Pharmexa | 07/24/2002 |
| | | PCT | WO 2004/072287 A1 | Instituto Di Ricerca Di Biologia Molecolare | 08/26/2004 |
| | | PCT | WO 2004/092216 A1 | Trangene S.A. | 10/28/2004 |
| | | PCT | WO 2004/099247 A2 | Instituto Di Ricerche Di Biologia Molecolare | 11/18/2004 |

**Examiner
Signature**

/Magdalene Sqagias/

Date Considered

05/30/2010

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| Substitute for form 1449A/PTO | | | | COMPLETE IF KNOWN | |
| INFORMATION DISCLOSURE | | | | 10/589180 | |
| STATEMENT BY APPLICANT | | | | Application Number | |
| | | | | Filing Date | August 18, 2006 |
| | | | | First Named Inventor | La Monica, et al. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| (use as many sheets as necessary) | | | | | |
| Sheet | 2 | of | 2 | Attorney Docket Number | ITR0073YP |

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SEARCHED **REFINED PREFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M/**

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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COMPLETE IF KNOWN

10/589180

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| Application Number | |
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| First Named Inventor | La Monica, et al. |
| Group Art Unit | |
| Examiner Name | |

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| Sheet | 3 | of | 4 | Attorney Docket Number | ITR0073YP |
|-------|---|----|---|------------------------|-----------|

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. | Include name of the author, title, date, page(s), volume-issue number(s) and place of publication. |
|--------------------|----------|---|
| /M.S./ | | Beauchemin, et al., "Isolation and Characterization of Full-Length Functional cDNA Clones for Human Carcinoembryonic Antigen", Mol. and Cell. Biol., Vol. 7, No. 9, pp. 3221-3230, Sept. 1987. |
| | | Benchimol, et al., "Carcinoembryonic Antigen, a Human Tumor Marker, Functions as an Intercellular Adhesion Molecule", Cell, Vol. 57, pp. 327-334, April 21, 1989. |
| | | Berinstein, et al., "Carcinoembryonic Antigen as a Target for Therapeutic Anticancer Vaccines: a Review", J. of Clinical Oncology, Vol. 20, No. 8, pp. 2197-2207, April 15, 2002. |
| | | Chen, et al., "Enhancement of DNA Vaccine Potency by Linkage of Antigen Gene to an HSP70 Gene", Cancer Research, Vol. 60, pp. 1035-1042, February 15, 2000. |
| | | Cheng, et al., "Enhancement of Sindbis Virus Self-Replicating RNA Vaccine Potency by Linkage of Mycobacterium tuberculosis Heat Shock Protein 70 Gene to an Antigen Gene", J. of Immunol., Vol. 166, pp. 6218-6226, 2001. |
| | | Chester, et al., "Recombinant anti-carcinoembryonic antigen antibodies for targeting cancer", Cancer Chemother. Pharmacol., Vol. 46 (Suppl) S2-S12, 2000. |
| | | Gold, et al., "Demonstration of Tumor-Specific Antigens in Human Colonic Carcinomata by Immunological Tolerance and Absorption Techniques", J. Exp. Med., Vol. 121, pp. 439-462 (1965). |
| | | Hammarstrom, et al., "Is There a Role for CEA in Innate Immunity in the Colon", Trends in Microbiology, Vol. 9, No. 3, pp. 119-125, 2001. |
| | | Kantor, et al., "Immunogenicity and Safety of a Recombinant Vaccinia Virus Vaccine Expressing the Carcinoembryonic Antigen Gene in a Nonhuman Primate", Cancer Research, Vol. 52, pp. 6917-6925, 1992. |
| | | King, et al., "DNA Vaccines With Single-Chain Fv Fused To Fragment C Of Tetanus Toxin Induce Protective Immunity Against Lymphoma and Myeloma", Nature Medicine, Vol. 4, No. 11, pp. 1281-1286, November 1998. |
| | | Lathe, "Synthetic Oligonucleotide Probes Deduced from Amino Acid Sequence Data", J. Mol. Biol., Vol. 183, pp. 1-12, 1985. |
| | | Liu, et al., "Recombinant Adeno-Associated Virus Expressing Human Papillomavirus Type 16 E7 Peptide DNA Fused with Heat Shock Protein DNA as a Potential Vaccine for Cervical Cancer", J. of Virol., Vol. 74, No. 6, pp. 2888-2894, March 2000. |
| | | Lund, et al., "Signal sequence deletion and fusion to tetanus toxin epitope augment antitumor immune responses to a human carcinoembryonic antigen (CEA) plasmid DNA vaccine in a murine test system", Cancer Gene Therapy, Vol. 10, pp. 365-376, 2003. |
| | | Montgomery, et al., "Heterologous and Homologous Protection Against Influenza A by DNA Vaccination: Optimization of DNA Vectors", DNA and Cell Biology, Vol. 12, No. 9, pp. 777-783, 1993. |
| | | Padua, et al., "PML-RARA-targeted DNA vaccine induces protective immunity in a mouse model of leukemia", Nature Medicine, Vol. 9, No. 11, pp. 1413-1417, November 2003. |

Examiner Signature

Magdalene Sgagias/

Date Considered

05/30/2010

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NON-PATENT LITERATURE DOCUMENTS

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| Examiner Signature | /Magdalene Sqagias/ | Date Considered | 05/30/2010 |
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